

C1
which is processed by calculator 62 which sends a control signal 64 to the control instrument 42.

Please REPLACE the paragraph beginning at page 18, line 7, as follows:

C2
In other words, when for a variety of reasons it is deemed necessary to check for variation in the coating amount of the resin and to adjust the coating amount accordingly, the resin coating apparatus 10 is moved and the syringe 16 positioned at the rotary plate 56 in a step S100. Then the resin 22 is extruded under programmed actual coating conditions onto the rotary plate 56 in a so-called dry run step S102. The dry run is carried out as appropriate whenever for any reason a change occurs in the amount of resin coating the printed wiring boards during a production line run. Additionally, the dry run may also be carried out on a regular and periodic basis for the purpose of checking and adjusting the amount of resin used in the coating, for example a dry run once every ten printed wiring board coatings.

Please REPLACE the paragraph spanning pages 18-19, as follows:

C3
As described above, the external appearance of the resin 22 is photographed with the camera 58 in the step S106 and the resulting image analyzed in the step S108. The image so acquired is used to determine the surface area of the resin 22 spread across the surface of the rotary plate 56. Ordinarily, when the measurement object is irregular, it is necessary to scan the entire image in order to obtain an approximation of its surface area. However, according to the present embodiment, the surface area can be obtained using just the diameter of the substantially circular shape formed by the spreading resin 22, thus making image analysis easy and quick.

Please REPLACE the paragraph beginning at page 19, line 13, as follows:

C4
Based on the surface area data obtained as described above, a correlation is found between surface area and coating amount by referring to a table of such correlations. Any difference between the predetermined programmed coating amount and the actual coating amount as obtained from the surface area data is sent to the control instrument 42, and the control instrument 42 used to reset the open-and-close cycle of the electromagnetic valve 40 in order to reacquire, or re-establish, the correct, that is, the predetermined coating amount in a

C48
step S110.

Please REPLACE the paragraph beginning at page 25, line 23, as follows:

C5
According to the resin coating method according to the third embodiment of the present invention, when the height at which the tip of the nozzle 16b is positioned changes, either because, for example, the syringe 16 containing the resin 22 used for coating becomes empty and is replaced with a new syringe 16 or for some other reason, the tip of the nozzle 16b is maintained at a predetermined height with respect to a reference surface when installed on the resin coating apparatus 90. Thereafter the syringe 16, which is positioned at a predetermined height above the reference surface, is then lowered a predetermined amount by the control program. As a result, the distance between the tip of the nozzle 16b and the printed wiring board 46 is maintained at a predetermined value even after the syringe has been replaced, so no change in the amount of resin 22 used in coating the printed wiring board 46 occurs.

Please REPLACE the paragraph spanning pages 26-27, as follows:

C6
Before the nozzle 16b is lowered to a resin coating height H2 at a predetermined distance between the nozzle 16b and the printed wiring board 46, the resin 22 is extruded from the nozzle 16b at an arbitrary height H1 (Fig. 10A). At this time the extruded resin 22 forms substantially a ball shape, with a top part of the ball attached to the tip of the nozzle 16b in a step S400.

Please REPLACE the paragraph beginning at page 27, line 3, as follows:

C7
The ball of resin 22 is then photographed by the camera 58 and, through image analysis, a diameter D of the ball of resin 22 is obtained in a step S402 by calculator 62.

Please REPLACE the paragraph beginning at page 27, line 7, as follows:

C8
A control signal 101 transmitted from the calculator 62 to the controller 14 based on the diameter data D obtained in the step S402, causing the syringe 16 to be lowered to the predetermined resin coating height H2 in a step S404, a height that corresponds to the diameter D. A bottom part of the resin 22 then contacts the printed wiring board, after which